

Colorado Department of Public Health and Environment

OPERATING PERMIT

Manchief Power Company, LLC Manchief Generating Station

First Issued: January 1, 2004

Renewed: January 1, 2009

Last Revised: December 5, 2011

AIR POLLUTION CONTROL DIVISION COLORADO OPERATING PERMIT

01OPMR236

FACILITY NAME: Manchief Generating OPERATING PERMIT NUMBER

Station

FACILITY ID: 0870011

RENEWED: January 1, 2009 EXPIRATION DATE: January 1, 2014

MODIFICATIONS: See Appendix F of Permit

Issued in accordance with the provisions of Colorado Air Pollution Prevention and Control Act, 25-7-101 et

<u>seq</u>. and applicable rules and regulations.

ISSUED TO: PLANT SITE LOCATION:

Manchief Power Company, LLC 14936 County Road 24 1500 South Clayton Street Brush, Colorado 80723

Brush, CO 80723 Morgan County

Note that all correspondence to be sent to the Colorado Energy Management Office in Lafayette, CO

INFORMATION RELIED UPON

Operating Permit Renewal Application

Received: March 6, 2008

And Additional Information Received: June 23 and July 28, 2008

Nature of Business: Electrical Power Generation

Primary SIC: 4911

RESPONSIBLE OFFICIAL FACILITY CONTACT PERSON

Name: Martin Wenzel Name: Daniel Dunlap
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SUBMITTAL DEADLINES

Semi-Annual Monitoring Period: January 1 – June 30, July 1 – December 31

Semi-Annual Monitoring Report: Due on Aug. 1, 2009 & Feb. 1, 2010 and subsequent years

Annual Compliance Period: January 1 – December 31

Annual Compliance Certification: Due on February 1, 2010 and subsequent years

Note that the Semi-Annual Monitoring Reports and Annual Compliance Certifications must be received at the Division office by 5:00 p.m. on the due date. Postmarked dates will not be accepted for the purposes of determining the timely receipt of those reports/certifications.

FOR ACID RAIN SUBMITTAL DEADLINES SEE SECTION III.4 OF THIS PERMIT

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SECTION I - General Activities and Summary

1. Permitted Activities

1.1 The Manchief Generating Station consists of two natural gas-fired simple cycle combustion turbines used to generate electric power and is defined under Standard Industrial Classification 4911. Each turbine is rated at a heat input of 1,279 mmBtu/hr and drives a generator rated at 142 MW at 32° F. Each turbine is equipped with an advanced dry low NO_X (DLN) combustion system to minimize NO_X emissions. Commercial operation of the units commenced in July 2000. In addition to the combustion turbines this facility also has a diesel fired internal combustion engine that drives a 3 MW generator. The generator is used to partially offset the load required by the electric startup motor of the first combustion turbine when neither combustion turbine/generator is on-line and also to supply emergency power in the event of a planned or unplanned event in which normal power is unavailable. In addition, a natural gas-fired indirect water bath heater is used to pre-heat the natural gas delivered to the turbines.

The Manchief Generating Station is co-located with Public Service Company's (PSCo's) Pawnee Generating Station. Since the two facilities are located on contiguous and adjacent property, belong to the same industrial grouping (first two digits of the SIC code are the same) and are under common control (via a power purchase agreement with PSCo), they are considered a single stationary source for purposes of major stationary source new source review and Title V operating permit applicability. A separate Title V operating permit was issued for PSCo's Pawnee Station (960PMR129). In addition, Boral Material Technologies, Inc. (BMTI) conducts ash conditioning, handling and blending operations at Pawnee station. BMTI is considered a support facility for PSCo's Pawnee Station and as such is considered a single source with PSCo's Pawnee Station and subsequently BMTI is also considered a single source with Manchief Generating Station. A separate Title V permit was issued for BMTI Pawnee Station (030PMR244).

The facility is located at 14936 County Road 24, approximately 4.2 miles south of Brush in Morgan County. The area in which the plant operates is designated as attainment for all criteria pollutants.

There are no affected states within 50 miles of the plant and there are no Federal Class I designated areas within 100 kilometers of the plant.

- 1.2 Until such time as this permit expires or is modified or revoked, the permittee is allowed to discharge air pollutants from this facility in accordance with the requirements, limitations, and conditions of this permit.
- 1.3 This Operating Permit incorporates the applicable requirements contained in the underlying construction permits, and does not affect those applicable requirements, except as modified during review of the application or as modified subsequent to permit issuance using the modification procedures found in Regulation No. 3, Part C. These Part C procedures meet all

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applicable substantive New Source Review Requirements of Part B. Any revisions made using the provisions of Regulation No. 3, Part C shall become new applicable requirements for purposes of this operating permit and shall survive reissuance. This permit incorporates the applicable requirements (except as noted in Section II) from the following construction permit: 99MR0169 PSD.

- All conditions in this permit are enforceable by US Environmental Protection Agency, Colorado Air Pollution Control Division (hereinafter Division) and its agents, and citizens unless otherwise specified. **State-only enforceable conditions are:** Permit Condition Number(s): Section II, Conditions 1.14 (opacity) and 3.5 (NSPS general provisions) and Section V Conditions 3.d, 3.g (last paragraph), 14 and 18 (as noted)
- 1.5 All information gathered pursuant to the requirements of this permit is subject to the Recordkeeping and Reporting requirements listed under Condition 22 of the General Conditions in Section V of this permit.

2. Alternative Operating Scenarios

- 2.1 The permittee shall be allowed to make the following changes to its method of operation without applying for a revision of this permit.
 - 2.1.1 No separate operating scenarios have been specified.

3. Prevention Of Significant Deterioration (PSD)

- 3.1 This source is located in an area designated attainment for all pollutants. It is a fossil fuel-fired steam electric plant of more than 250 million Btu per hour input and is categorized as a major stationary source (Potential to Emit ≥ 100 Tons/Year). A PSD permit has been issued for this facility. Future modifications at this facility resulting in a significant net emissions increase (see Reg 3, Part D, Sections II.A.26 and 42) for any pollutant as listed in Regulation No. 3, Part D, Section II.A.42 or a modification which is major by itself will result in the application of the PSD review requirements.
- 3.2 Operating Permits 96OPMR129 (Public Service Co Pawnee Station) and 03OPMR244 (Boral Material Technologies, Inc. Pawnee Station) are to be considered in conjunction with this operating permit for purposes of determining the applicability or non-applicability of Prevention of Significant Deterioration (PSD) regulations.

4. Accidental Release Prevention Program (112(r))

4.1 Based on the information provided by the applicant, this facility is not subject to the provisions of the Accidental Release Prevention Program (section 112(r)) of the Federal Clean Air Act.

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5. Compliance Assurance Monitoring (CAM)

5.1 The following emission points at this facility use a control device to achieve compliance with an emission limitation or standard to which they are subject and have pre-control emissions that exceed or are equivalent to the major source threshold. They are therefore subject to the provisions of the CAM program as set forth in 40 CFR Part 64, as adopted by reference in Colorado Regulation No. 3, Part C, Section XIV:

None of the emission units addressed in this permit are equipped with a control device; therefore, CAM does not apply to any of the emission units addressed in this permit.

6. Summary of Emission Units

6.1 The emissions units regulated by this permit are the following:

Emission Unit Number	AIRS Stack Number	Facility Identifier	Description	Startup Date	Pollution Control Device
S001 and S002	016 and 017	CT001 and CT002	Two (2) Siemens Westinghouse Model V84.3A1 Natural Gas Fired Combustion Turbines, Each Rated at 1,279 mmBtu/hr, Serial Numbers: 800310 (CT001) and 800311 (CT002). Each Turbine Drives a Generator Rated at 142 MW at 32° F.	July 2000	Dry Low NO _X (DLN) Combustion Systems
S003	018	DE003	General Motors, No. 2 Diesel Fuel Fired Internal Combustion Engine, Model No. 20-045-E4, Serial No. 69-81-1097, Rated at 25.29 mmBtu/hr and 3600 HP. This Engine Drives a Generator Rated at 3 MW. Power from this Engine is Used to Start the Turbines.	August 2000	Uncontrolled
S004	019	GH004	One (1) Gas Tech, Model Eclipse, Serial No. J-5419, Natural Gas Fired Indirect Water Bath Heater, Rated at 8.36 mmBtu/hr. This Heater is Used for Heating Fuel Gas Going to the Turbines.	July 2000	Uncontrolled

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SECTION II - Specific Permit Terms

1. S001 & S002 – Two (2) Natural Gas Fired Combustion Turbines

Unless Otherwise Specified Limits are for **Each** Turbine

Parameter	Permit Condition	Limitations		Compliance Emission	Monitoring		
	Number	Short Term	Long Term	Factor	Method	Interval	
BACT Requirements	1.1	N/A	N/A	N/A	See Condi	tion 1.1.	
PM 1.2.		N/A	66.2 tons/yr	Unit 1: 10.5 lbs/mmSCF Unit 2: 7.8 lbs/mmSCF	Recordkeeping and Calculation	Monthly	
		0.1 lbs/mmBtu, the average of three (3), 1-hr tests		N/A	Fuel Restriction	Only Pipeline Quality Natural Gas is Used as Fuel	
PM ₁₀		N/A	48.6 tons/yr	Unit 1: 5.8 lbs/mmSCF Unit 2: 7.6 lbs/mmSCF	Recordkeeping and Calculation	Monthly	
VOC 1.3.		3 ppmvd @ 15% O ₂ on a 1-hr average		N/A	Fuel Restriction and "Good Combustion Practices"	Only Pipeline Quality Natural Gas is Used as Fuel	
		N/A	21.9 tons/yr	3.7 lbs/mmSCF	Recordkeeping and Calculation	Monthly	
SO ₂	1.4.	N/A	3.5 tons/yr	N/A	40 CFR Part 75, Appendix D	As specified in 40 CFR Part 75, Appendix D	
		150 ppmvd @ 15% O ₂ OR Use of Fuel Which Contains Less than 0.8 Weight % Sulfur		N/A	Fuel Restriction	See Condition 1.4.	
		0.35 lbs/mmBtu, on a 3-hour rolling average					

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Parameter	Permit Condition	Limitations		Compliance Emission	Monitoring		
	Number	Short Term	Long Term	Factor	Method	Interval	
NO _X	1.5.	15 ppmvd @ 15% O ₂ on a 1-hr average, except as provided for below During low load operations between March 1 – October 31: 25 ppmvd @ 15% O ₂ on a 1-hr average During Startup and Shutdown: 100 ppmvd @ 15% O ₂ on a 1-hr average		N/A	Continuous Emission Monitoring System	Continuously	
		N/A	396.7 tons/yr				
СО	1.6.	10 ppmvd @ 15% O ₂ on a 1-hr average, except as provided for below During low load operations between March 1 – October 31: 15 ppmvd @ 15% O ₂ on a 1-hr average During Startup and Shutdown: 300 ppmvd @ 15% O ₂ on a 1-hr average		N/A	Continuous Emission Monitoring System	Continuously	
		N/A	153.7 tons/yr				
Natural Gas Consumption	1.7.	N/A	11,925 mmSCF/yr	N/A	Fuel Meter	Monthly	
Continuous Emission Monitoring System Requirements	1.8.	N/A	N/A	N/A	See Condition 1.8.		
Fuel Flow Meter	1.9.	N/A	N/A	N/A	See Condi	tion 1.9.	
Sulfur Content of Natural Gas	1.10.	N/A	N/A	N/A	See Condition 1.10.		
NSPS General Provisions	1.11.	N/A	N/A	N/A	As Required by NSPS General Provisions	Subject to NSPS General Provisions	
Opacity	1.12.		ed 20% Except as d for in 1.13	N/A	See Condit	ion 1.12.	

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Parameter	Permit Condition Number	Limitations	Compliance Emission Factor	Monitoring		
	1 (dilloci	Short Term Long Term	1 40101	Method	Interval	
Opacity	1.13.	For Certain Operational Activities - Not to Exceed 30%, for a Period or Periods Aggregating More than Six (6) Minutes in any 60 Consecutive Minutes		on 1.13.		
State-Only Opacity	1.14.	Not to Exceed 20%	N/A	See Condition 1.14		
Acid Rain Requirements	1.15	See Section III of this Pe	Certification	Annually		

- 1.1 The **two combustion turbines** are subject to the requirements of the Prevention of Significant Deterioration (PSD) Program.
 - 1.1.1 Best Available Control Technology (BACT) shall be applied for control of Nitrogen Oxides (NO_X), Carbon Monoxide (CO), Volatile Organic Compounds (VOC) and Particulate Matter (PM and PM_{10}). BACT has been determined as follows:
 - 1.1.1.1 BACT for NO_X has been determined to be Dry Low NO_X (DLN)
 Combustion Systems with emission limits as identified in Condition 1.5.1
 (Colorado Construction Permit 99MR0169 PSD).
 - 1.1.1.2 BACT for CO has been determined to be "good combustion practices" with the emission limits as identified in Condition 1.6.1 (Colorado Construction Permit 99MR0169 PSD).
 - 1.1.1.3 BACT for VOC has been determined to be use of pipeline quality natural gas and application of "good combustion practices" with the emission limitation in Condition 1.3.1 (Colorado Construction Permit 99MR0169 PSD).
 - 1.1.1.4 BACT for PM and PM₁₀ has been determined to be use of pipeline quality gas and application of "good combustion practices" (Colorado Construction Permit 99MR0169 PSD).
- 1.2 PM and PM_{10} emissions are subject to the following requirements:
 - 1.2.1 Annual emissions of PM and PM₁₀ **from each turbine** shall not exceed the above limitations (Colorado Construction Permit 99MR0169 PSD). Monthly emissions from each turbine shall be calculated by the end of the subsequent month using the above emission factors (for Unit 2 from performance tests conducted on September 8

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& 11, 2000 and for Unit 1 from performance tests conducted December 10, 2002) in the following equation:

tons/month = (EF, lbs/mmSCF) x (Fuel Use, mmSCF/mo) 2000 lbs/ton

Monthly emissions from each turbine shall be used in a twelve month rolling total to monitor compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.

- 1.2.2 Particulate Matter (PM) emissions **from each turbine** shall not exceed 0.1 lbs/mmBtu (Colorado Regulation No. 1, Section III.A.1.c). In the absence of credible evidence to the contrary, compliance with the particulate matter emission limits is presumed since only pipeline quality natural gas is permitted to be used as fuel in the turbines.
- 1.3 Volatile Organic Compound (VOC) emissions shall not exceed the following limitations:
 - 1.3.1 The BACT limit for each turbine is 3 ppmvd at 15% O₂, on a 1-hour average (Colorado Construction Permit 99MR0169 PSD). In the absence of credible evidence to the contrary, compliance with the VOC BACT limit is presumed since only pipeline quality natural gas is permitted to be used as fuel and "good combustion practices" are applied.
 - 1.3.2 Annual emissions of VOC **from each turbine** shall not exceed the above limitations (Colorado Construction Permit 99MR0169 PSD). Monthly emissions from each turbine shall be calculated by the end of the subsequent month using the above emission factors (from the manufacturer) in the following equation:

tons/month = (EF, lbs/mmSCF) x (Fuel Use, mmSCF/mo)
2000 lbs/ton

Monthly emissions from each turbine shall be used in a twelve month rolling total to monitor compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.

- 1.4 Sulfur Dioxide (SO₂) emissions shall not exceed the following limitations:
 - 1.4.1 Sulfur Dioxide (SO₂) emissions **from each turbine** shall not exceed the above limitations (Colorado Construction Permit 99MR0169 PSD). Compliance with the annual SO₂ emission limitations shall be monitored using the monitoring method specified in 40 CFR Part 75 Appendix D.

Monthly emissions from each turbine shall be used in a twelve month rolling total to monitor compliance with the annual limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.

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- 1.4.2 **Each turbine** shall meet one of the following requirements:
 - 1.4.2.1 Sulfur Dioxide (SO₂) emissions from each turbine shall not exceed 150 ppmvd at 15% O₂ **OR**
 - 1.4.2.2 No fuel, which contains sulfur in excess of 0.8 percent by weight, shall be used in these combustion turbines (40 CFR Part 60 Subpart GG §§ 60.333(a) & (b), as adopted by reference in Colorado Regulation No. 6, Part A).

In the absence of credible evidence to the contrary, compliance with the above requirements is presumed since only pipeline quality natural gas is permitted to be used as fuel. The natural gas used as fuel shall meet the requirements in Condition 1.10.

- 1.4.3 Sulfur Dioxide (SO₂) emissions **from each turbine** shall not exceed 0.35 lbs/mmBtu, on a 3-hr rolling average (Colorado Regulation No. 1, Section VI.B.4.c.(ii) and VI.B.2). In the absence of credible evidence to the contrary, compliance with the SO₂ limitations is presumed since only pipeline quality natural gas is permitted to be used as fuel in these turbines.
- 1.5 Emissions of Nitrogen Oxides (NO_X) shall not exceed the following limitations:
 - 1.5.1 BACT emission limits are as follows:
 - 1.5.1.1 Nitrogen Oxide (NO_X) emissions **from each turbine** shall not exceed the following limitations (Colorado Construction Permit 99MR0169):
 - a. Except as provided for below, emissions of NO_X shall not exceed 15 ppmvd at 15% O_2 , on a 1-hour average.
 - b. During startup and shutdown, emissions of NO_X shall not exceed 100 ppmvd at 15% O_2 , on a 1-hour average.
 - c. During low load operations between March 1 through October 31, emissions of NO_X shall not exceed 25 ppmvd at 15% O_2 , on a 1-hour average.
 - d. "Startup" means the setting in operation of any air pollution source for any purpose. Setting in operation for these turbines begins with the initial fuel firing to the combustion turbine. Setting in operation for these turbines ends at the end of the clock hour following the clock hour during which the turbine has been in the premix mode for 20 minutes. Premix mode starts when the pilot gas valve opens and the diffusion valve closes (Colorado Construction Permit 99MR0169 PSD).

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- e. "Shutdown" means the cessation of operation of any air pollution source for any purpose. The cessation of operation for these turbines begins when the command signal is initiated by the turbine operator to shutdown the unit and ends when fuel is no longer being fired in the turbine (Colorado Construction Permit 99MR0169 PSD).
- f. "Low load operation" is defined as individual turbine operation less than or equal to 100 MW, approximately 70% of the base load operation at 142 MW at 32° F (Colorado Construction Permit 99MR0169 PSD).

Compliance with the NO_X BACT limitations shall be monitored using the continuous emission monitor required by Condition 1.8. The emission limits in Conditions 1.5.1.1.a begin with the first full clock hour of operation after startup is complete and continue until the last full clock hour prior to shutdown.

- 1.5.2 Annual emissions of NO_X **from each turbine** shall not exceed the above limitation (Colorado Construction Permit 99MR0169 PSD, initial approval, modification 1, dated February 21, 2001). Monthly emissions from each turbine shall be determined using the continuous emission monitoring system required by Condition 1.8. Monthly emissions from each turbine shall be used in a twelve month rolling total to monitor compliance with the annual emission limitation. Each month a new twelve month total shall be calculated using the previous twelve months total.
- 1.6 Emissions of Carbon Monoxide (CO) shall not exceed the following limitations:
 - 1.6.1 BACT emission limits are as follows:
 - 1.6.1.1 Carbon Monoxide (CO) emissions **from each turbine** shall not exceed the following limitations (Colorado Construction Permit 99MR0169 PSD):
 - a. Except as provided for below, emissions of CO shall not exceed 10 ppmvd at 15% O₂, on a 1-hour average.
 - b. During startup and shutdown, emissions of CO shall not exceed 300 ppmvd at 15% O₂, on a 1-hour average.
 - c. During low load operations between March 1 through October 31, emissions of CO shall not exceed 15 ppmvd at 15% O₂, on a 1-hour average.
 - d. "Startup" shall have the same definition as in Condition 1.5.1.1.d.
 - e. "Shutdown" shall have the same definition as in Condition 1.5.1.1.e.
 - f. "Low load operation" shall have the same definition as in Condition 1.5.1.1.f.

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Compliance with the CO BACT limitations shall be monitored using the continuous emission monitor required by Condition 1.8. The operating emission limits in Conditions 1.6.1.1.a begin with the first full clock hour of operation after startup is complete and continue until the last full clock hour prior to shutdown.

- 1.6.2 Annual emissions of CO **from each turbine** shall not exceed the above limitations (Colorado Construction Permit 99MR0169 PSD). Monthly emissions from each turbine shall be determined using the continuous emission monitor required by Condition 1.8. Monthly emissions from each turbine shall be used in a twelve month rolling total of emissions to monitor compliance with the annual emission limitation. Each month a new twelve month total shall be calculated using the previous twelve months total.
- 1.7 Natural gas consumption **from each turbine** shall not exceed the above limitations (Colorado Construction Permit 99MR0169 PSD). Natural gas consumed by each turbine shall be monitored and recorded monthly using fuel meters required by Condition 1.9. Monthly quantities of natural gas consumed by each turbine shall be used in a rolling twelve month total to monitor compliance with the annual limitation. Each month a new twelve month rolling total shall be calculated using the previous twelve months data.
- 1.8 Each of the turbine exhaust stacks shall be equipped with a continuous emission monitoring system to measure and record the following:
 - 1.8.1 Concentration of Oxides of Nitrogen; ppmvd hourly average;
 - 1.8.2 Emissions of Oxides of Nitrogen; pounds per hour, tons per month;
 - 1.8.3 Concentration of Carbon Monoxide; ppmvd hourly average;
 - 1.8.4 Emissions of Carbon Monoxide, pounds per hour, tons per month;
 - 1.8.5 Concentration of Oxygen, percent hourly average;
 - 1.8.6 Operating mode startup, shutdown, low load operation and/or standard operation; and
 - 1.8.7 Load, in MW, at which turbine is operating.

The continuous emission monitoring systems shall meet the requirements in Condition 4 of this permit. Monthly emissions of NO_X and CO from the continuous emission monitoring system shall be used as specified by Conditions 1.5.2 and 1.6.2 to monitor compliance with the annual NO_X and CO emission limitations.

1.9 Each turbine shall be equipped with an in-line fuel flow meter that meets the requirements in 40 CFR Part 75 Appendix D to measure fuel combusted in each turbine. Fuel flow data shall be

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recorded on a data acquisition and handling system as specified in 40 CFR Part 75 Appendix D (99MR0169 PSD).

- 1.10 The permittee shall maintain records demonstrating that the natural gas burned meets the definition of pipeline quality natural gas as defined in 40 CFR Part 72. Specifically, the permittee shall demonstrate that the natural gas burned has a total sulfur content less than 0.5 grains/100 SCF. The demonstration shall be made using any of the methods identified in 40 CFR Part 75 Appendix D, Section 2.3.1.4. These records shall be made available to the Division upon request.
- 1.11 Regulation No. 6, Part A, Subpart A, General Provisions applies as follows:
 - 1.11.1 No article, machine, equipment or process shall be used to conceal an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gasses discharged to the atmosphere. (40 CFR Part 60 Subpart A § 60.12, as adopted by reference in Colorado Regulation No. 6, Part A)
 - 1.11.2 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source (Colorado Construction Permit 99MR0169 PSD and 40 CFR Subpart A § 60.11(d), as adopted by Regulation No. 6, Part A).
- 1.12 Except as provided for in Condition 1.13 below, no owner or operator of a source shall allow or cause the emission into the atmosphere of any air pollutant which is in excess of 20% opacity (Colorado Construction Permit 99MR0169 PSD and Colorado Regulation No. 1, Section II.A.1). This opacity standard applies to **each turbine**. In the absence of credible evidence to the contrary, compliance with the 20% opacity limit shall be presumed since only pipeline quality natural gas is permitted to be used as fuel for these units.
- 1.13 No owner or operator of a source shall allow or cause to be emitted into the atmosphere any air pollutant resulting from the building of a new fire, cleaning of fire boxes, soot blowing, start-up, process modifications, or adjustment or occasional cleaning of control equipment which is in excess of 30% opacity for a period or periods aggregating more than six (6) minutes in any sixty (60) consecutive minutes (Colorado Construction Permit 99MR0169 PSD and Colorado Regulation No. 1, Section II.A.4). This opacity standard applies to **each turbine.** In the absence of credible evidence to the contrary, compliance with the 30% opacity limit shall be presumed since only pipeline quality natural gas is permitted to be used as fuel for these units.

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- 1.14 **State-Only Requirement:** No owner or operator may discharge, or cause the discharge into the atmosphere of any particulate matter which is greater than 20% opacity (Colorado Regulation No. 6, Part B, Section II.C.3). This opacity standard applies to **each turbine.** In the absence of credible evidence to the contrary, compliance with the 20% opacity requirement is presumed since only pipeline quality natural gas is permitted to be used as fuel for these units.
 - This opacity standard applies at all times except during periods of startup, shutdown and malfunction (40 CFR Part 60 Subpart A § 60.11(c), as adopted by reference in Colorado Regulation No. 6, Part B, Section I.A).
- 1.15 This unit is subject to the Title IV Acid Rain Requirements. As specified in 40 CFR Part 72.72(b)(1)(viii), the acid rain permit requirements shall be complete and segregable portion of the Operating Permit. As such the requirements are found in Section III of this permit.

2. S003 – No. 2 Diesel Fuel Fired Internal Combustion Engine

Parameter	Permit Condition	Limit	ations	Compliance Emission Factor	Monitor	Monitoring		
	Number	Short Term	Long Term	Limssion i actor	Method	Interval		
BACT Requirements	2.1.	-	ation Shall Not 100 hrs/yr	See Condition 2.1.	See Condition 2.1.			
Fuel Consumption	2.2.	N/A	72,000 gal/yr	N/A	Fuel Meter	Monthly		
NO _X	2.3.	N/A	15.4 tons/yr	3.04 lbs/mmBtu	Recordkeeping and Calculation	Monthly		
SO_2	2.4.	Not to Exceed 0.8 lbs/mmBtu		N/A	Fuel Restriction	See Condition 2.4.		
Fuel Sampling	2.5.	N/A	N/A	N/A	ASTM Methods	Annually		
Opacity	2.6.		20% Except as for Below	N/A	EPA Method 9	See Condition		
		For Startup – Not to Exceed 30%, for a Period or Periods Aggregating More than Six (6) Minutes in any 60 Consecutive Minutes				2.6.		

- 2.1 The engine is subject to the requirements of the Prevention of Significant Deterioration (PSD) Program.
 - 2.1.1 Best Available Control Technology (BACT) shall be applied for control of Nitrogen Oxides (NO_X) and BACT has been determined to be retarded-time ignition and aftercooler.

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- 2.1.2 Operation of this engine is limited to 400 hrs/yr (Colorado Construction Permit 99MR0169 PSD). The hours the engine has operated shall be monitored and recorded monthly. Monthly hours of operation shall be used in a rolling twelve month total to monitor compliance with the annual limitation. Each month a new twelve month total shall be calculated using the previous twelve months data.
- 2.2 Fuel consumption from the engine shall not exceed the above limitation (Colorado Construction Permit 99MR0169 PSD). Fuel consumed by the engine shall be monitored and recorded monthly using the engine fuel meter. When the fuel meter is not functional, fuel consumption shall be determined by multiplying the hours of operation by the maximum hourly fuel consumption rate (180 gal/hr) for the engine. Monthly quantities of fuel consumed by the engine shall be used in a rolling twelve month total to monitor compliance with the annual limitation. Each month a new twelve month rolling total shall be calculated using the previous twelve months data.
- 2.3 NO $_{\rm X}$ emissions from the engine shall not exceed the above limitation (Colorado Construction Permit 99MR0169 PSD). Monthly emissions shall be calculated by the end of the subsequent month using the above emission factor (from manufacturer, converted to lbs/mmBtu based on an engine heat rate of 7,025 Btu/hp-hr as indicated in the Title V permit application), the monthly fuel consumption and the heating value of the fuel (as determined by Condition 2.5) in the equation below:

 NO_X (tons/month) = EF (lbs/mmBtu) x monthly fuel consumption (gal/mo) x heat content of fuel (mmBtu/gal) 2000 lbs/ton

Monthly emissions shall be used in a twelve month rolling total to monitor compliance with the annual limitation. Each month a new twelve month total shall be calculated using the previous twelve months data.

- 2.4 Emissions of SO₂ from the engine shall not exceed the limitation stated above (Colorado Regulation No. 1, Section VI.B.4.b.(i)). In the absence of credible evidence to the contrary, compliance with the above SO₂ limitation shall be presumed provided the fuel sampling required by Condition 2.5 demonstrates that the fuel has a sulfur content no greater than 0.79 % sulfur.
 - Note that this presumption is based on calculation using an emission factor of 1.01S lbs/mmBtu, where S is the weight percent sulfur in the fuel. The emission factor is from AP-42, Section 3.4, dated October 1996, Table 3.4-1.
- 2.5 Diesel fuel shall be sampled and analyzed annually, using the appropriate ASTM Methods, or equivalent, if approved in advance by the Division to determine the heat content and weight percent sulfur of the fuel. In lieu of sampling, vendor data may be used to determine the heat content and weight percent sulfur provided sampling and analysis was performed using the appropriate ASTM methods. Calculations of monthly emissions, as required by Condition 2.3, shall be made using the heat content derived from the most recent required analysis.

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- 2.6 Opacity of emissions from the engine shall not exceed the following:
 - 2.6.1 Except as provided for in Condition 2.6.2 below, no owner or operator of a source shall allow or cause the emission into the atmosphere of any air pollutant which is in excess of 20% opacity (Colorado Construction Permit 99MR0169 PSD and Colorado Regulation No. 1, Section II.A.1).
 - 2.6.2 No owner or operator of a source shall allow or cause to be emitted into the atmosphere any air pollutant resulting from startup which is in excess of 30% opacity for a period or periods aggregating more than six (6) minutes in any sixty (60) consecutive minutes (Colorado Construction Permit 99MR0169 PSD and Colorado Regulation No. 1, Section II.A.4).

Compliance with these limitations shall be monitored by conducting opacity observations in accordance with EPA Reference Method 9 as follows:

- 2.6.3 An engine startup period of less than 60 minutes shall not require a startup opacity observation. If the engine startup period is greater than 60 minutes, one opacity observation shall be made for each consecutive 4 hour period of startup during daylight hours. In addition, a record shall be kept of the date and time the engine started and when it was shutdown.
- 2.6.4 Continued operation of the engine after the completion of the startup period shall require monthly opacity observations. If the startup and operation of the engine lasts less than a total of 4 hours from engine start to engine stop, in any one day no opacity observations are required for that day.
- 2.6.5 If no opacity observations are made pursuant to Conditions 2.6.3 and 2.6.4 above, then an opacity observation shall be conducted annually.
- 2.6.6 All opacity observations shall be performed by an observer with current and valid Method 9 certification.

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3. S004 – Gas Heater

Condition Number 3.1.	Short Term N/A	Long Term N/A	Emission Factor	Method	Interval
	N/A	N/Δ			
2.2		17/21	N/A	See Condit	ion 3.1.
3.2	N/A	3.9 tons/yr	100 lbs/mmSCF	Recordkeeping	Monthly
•	N/A	3.3 tons/yr	84 lbs/mmSCF	and Calculation	
3.3	N/A	77.9 mmSCF/yr	N/A	Fuel Meter and Recordkeeping	Monthly
3.4.	0.288 lbs/mmBtu		N/A	Fuel Restriction	Only Pipeline Quality Natural Gas is Used as Fuel
3.5.	N/A	N/A	N/A	As Required by NSPS General Provisions	Subject to NSPS General Provisions
3.6.	Not to 20% Except as Provided for Below Special Conditions - Not to Exceed 30% for a Period or Periods Aggregating More than Six (6) Minutes in Any Sixty		N/A	Fuel Restriction	Only Pipeline Quality Natural Gas is Used as Fuel
	3.4.	3.4. 0.288 lbs 3.5. N/A 3.6. Not to 20% Exc for B Special Condi Exceed 30% from Periods Aggregates Six (6) Minutes	3.3 N/A 77.9 mmSCF/yr 3.4. 0.288 lbs/mmBtu 3.5. N/A N/A 3.6. Not to 20% Except as Provided for Below Special Conditions - Not to Exceed 30% for a Period or	3.3 N/A 77.9 N/A 3.4. 0.288 lbs/mmBtu N/A 3.5. N/A N/A N/A 3.6. Not to 20% Except as Provided for Below Special Conditions - Not to Exceed 30% for a Period or Periods Aggregating More than Six (6) Minutes in Any Sixty	3.3 N/A 77.9 N/A Fuel Meter and Recordkeeping 3.4. 0.288 lbs/mmBtu N/A Fuel Restriction 3.5. N/A N/A N/A N/A As Required by NSPS General Provisions 3.6. Not to 20% Except as Provided for Below Special Conditions - Not to Exceed 30% for a Period or Periods Aggregating More than Six (6) Minutes in Any Sixty

- 3.1 The gas heater is subject to the requirements of the Prevention of Significant Deterioration (PSD) Program. Best Available Control Technology (BACT) shall be applied for control of Nitrogen Oxides (NO_X) and BACT has been determined to be low NO_X burners for the gas heater.
- 3.2 Emissions of Nitrogen Oxides (NO_X) and Carbon Monoxide (CO) shall not exceed the above limitations (Colorado Construction Permit 99MR0169 PSD). Monthly emissions shall be calculated by the end of the subsequent month using the above emission factors (from EPA's Compilation of Emission Factors (AP-42), dated March 1998, Section 1.4) in the following equation:

 $tons/month = \underbrace{[EF (lbs/mmSCF) x monthly natural gas usage (mmSCF/month)]}_{2000 lbs/ton}$

A twelve month rolling total of emissions will be maintained to monitor compliance with the annual emission limitations. Each month a new twelve month total shall be calculated using the previous twelve months data.

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- 3.3 Natural gas usage for this heater shall not exceed the limitation stated above (Colorado Construction Permit 99MR0169 PSD). On the first working day of each month natural gas usage shall be recorded using the heater fuel meter. Monthly natural gas use shall be used in a twelve month rolling total to monitor compliance with the annual limitation. Each month a new twelve month total shall be calculated using the previous months data.
- 3.4 Particulate Matter (PM) emissions shall not exceed the limitation above (Colorado Regulation No. 1, Section III.A.1.b). In the absence of credible evidence to the contrary, compliance with the particulate matter limitations is presumed since only pipeline quality natural gas is permitted to be used as fuel in the heater.

Note that the numeric PM standard was determined using the design heat input for the boiler (8.36 mmBtu/hr) in the following equation:

 $PE = 0.5 \text{ x (FI)}^{-0.26}$, where: PE = particulate standard in lbs/mmBtu

FI = fuel input in mmBtu/hr

- 3.5 **State-Only Requirement:** The gas heater is subject to the requirements in 40 CFR Part 60, Subpart A General Provisions, as adopted by reference in Colorado Regulation No. 6, Part B, Section I. Specifically, the gas heater is subject to the following requirements:
 - 3.5.1 No article, machine, equipment or process shall be used to conceal an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gasses discharged to the atmosphere. (40 CFR Part 60 Subpart A, § 60.12, as adopted by reference in Colorado Regulation No. 6, Part B, Section I.A)
 - 3.5.2 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source (40 CFR Subpart A § 60.11(d), as adopted by reference in Colorado Regulation No. 6, Part B, Section I.A).
 - 3.5.3 Records shall be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the source; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative (40 CFR Part 60 Subpart A § 60.7(b), as adopted by reference in Colorado Regulation No. 6, Parts A, Subparts A and B, Section I.A).

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- 3.6 Opacity of emissions from the gas heater shall not exceed the following:
 - 3.6.1 Except as provided for in Condition 3.6.2 below, no owner or operator of a source shall allow or cause the emission into the atmosphere of any air pollutant which is in excess of 20% opacity (Colorado Construction Permit 99MR0169 PSD and Colorado Regulation No. 1, Section II.A.1).
 - 3.6.2 No owner or operator of a source shall allow or cause to be emitted into the atmosphere any air pollutant resulting from startup which is in excess of 30% opacity for a period or periods aggregating more than six (6) minutes in any sixty (60) consecutive minutes (Colorado Construction Permit 99MR0169 PSD and Colorado Regulation No. 1, Section II.A.4).

In the absence of credible evidence to the contrary, compliance with the opacity limitations is presumed since only pipeline quality natural gas is permitted to be used as fuel in the gas heater.

4. Continuous Emission Monitoring Requirements

Note that the continuous emission monitoring requirements identified in this Condition, are in addition to the continuous emission monitoring requirements required by the Acid Rain Program, which are identified in Section III of this permit.

- 4.1 Equipment and QA/QC Requirements
 - 4.1.1 The Continuous Emission Monitoring Systems (CEMS) are subject to the following requirements:
 - 4.1.1.1 Except as provided for below, the **CO monitors are** subject to the applicable requirements of 40 CFR Part 60 (Colorado Construction Permit 99MR0169 PSD). The monitoring systems shall meet the equipment, installation and performance specifications of 40 CFR Part 60 Appendix B, Performance Specification 4/4A. These CEMS are subject to the quality assurance/quality control requirements in 40 CFR Part 60 Appendix F and Subpart A § 60.13.
 - a. The CO CEMS data shall meet the applicable "primary equipment hourly operating requirements" for hourly average calculation methodology specified in 40 CFR Part 75 Subpart B § 75.10(d) (Colorado Construction Permit 99MR0169 PSD).
 - 4.1.1.2 Except as provided for below, the **NO**_X (and diluent) monitors are subject to the applicable requirements of 40 CFR Part 75. The monitoring systems shall meet the equipment, installation and performance specification requirements in 40 CFR Part 75, Appendix A. These CEMS shall meet the quality assurance/quality control requirements in 40 CFR Part 75, Appendix B and the conversion procedures of Appendix F.

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- 4.1.2 Quality assurance/quality control plans shall be prepared and implemented for the continuous emission monitoring systems as follows:
 - 4.1.2.1 The quality assurance/quality control plan for the **CO monitors** shall be prepared in accordance with the applicable requirements in 40 CFR Part 60, Appendix F.
 - 4.1.2.2 The quality assurance /quality control plan for the NO_X (and diluent) monitors shall be prepared in accordance with the applicable requirements in 40 CFR Part 75, Appendix B.

The quality assurance/quality control plans shall be made available to the Division upon request. Revisions shall be made to the plans at the request of the Division.

4.2 General Provisions

- 4.2.1 **CO monitors:** The permittee shall ensure that all continuous emission monitoring systems required are in operation and monitoring unit emissions or opacity at all times except for monitoring system breakdowns, repairs, calibration checks and zero and span adjustments required under 40 CFR Part 60 Subpart A § 60.13(d) (40 CFR Part 60 Subpart A § 60.13(e)).
- 4.2.2 **NO**_X (and diluent) monitors: The permittee shall ensure that all continuous emission and opacity monitoring systems required are in operation and monitoring unit emissions or opacity at all times that the affected unit combusts any fuel except as provided in 40 CFR § 75.11(e) and during periods of calibration, quality assurance, or preventative maintenance performed pursuant to 40 CFR Part 75, § 75.21 and Appendix B, periods of repair, periods of backups of data from the data acquisition and handling system or recertification performed pursuant to 40 CFR § 75.20 (40 CFR Part 75 § 75.10(d)).
- 4.2.3 Alternative monitoring systems, alternative reference methods, or any other alternatives for the required continuous emission monitoring systems shall not be used without having obtained prior written approval from the appropriate agency, either the Division or the U. S. EPA, depending on which agency is authorized to approve such alternative under applicable law. Any alternative continuous emission monitoring systems or continuous opacity monitoring systems must be certified in accordance with the applicable requirements of 40 CFR Part 60 or 40 CFR Part 75 prior to use.
- 4.2.4 All test and monitoring equipment, methods, procedures and reporting shall be subject to the review and approval by the appropriate agency, either the Division or the U. S. EPA, depending on which agency is authorized to approve such item under applicable law, prior to any official use. The Division shall have the right to inspect such equipment, methods and procedures and data obtained at any time. The Division may provide a witness(s) for any and all tests as Division resources permit.

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- 4.2.5 A file suitable for inspection shall be maintained of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by applicable portions of 40 CFR Part 60 Subpart A and Appendices B and F and 40 CFR Part 75.
- 4.2.6 Records shall be maintained of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the source; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative (40 CFR Part 60 Subpart A § 60.7(b) and Colorado Construction Permit 99MR0169 PSD).
- 4.3 Recordkeeping and Reporting Requirements
 - 4.3.1 The owner or operator of a facility required to install, maintain, and calibrate continuous monitoring equipment shall submit to the Division, by the end of the calendar month following the end of each calendar quarter, a report of excess emissions for all pollutants monitored for that quarter (40 CFR Part 60 Subpart A § 60.7(c)). This report shall consist of the following information and/or reporting requirements as specified by the Division:
 - 4.3.1.1 The magnitude of excess emissions computed in accordance with 40 CFR Part 60 Subpart A § 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions and the process operating time during the reporting period (40 CFR Part 60 Subpart A § 60.7(c)(1)).
 - 4.3.1.2 Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted (40 CFR Part 60 Subpart A § 60.7(c)(2)).
 - 4.3.1.3 The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments (40 CFR Part 60 Subpart A § 60.7(c)(3)).
 - 4.3.1.4 When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report (40 CFR Part 60 Subpart A § 60.7(c)(4)).

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4.3.2 The owner or operator of a facility required to install, maintain, and calibrate continuous monitoring equipment shall submit to the Division, by the end of the month following the end of each calendar quarter, a summary report for that quarter (40 CFR Part 60 Subpart A § 60.7(c)). One summary report form shall be submitted for each pollutant monitored. This report shall contain the information and be presented in a format approved by the Division.

If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and continuous monitoring system (CMS) downtime is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in Condition 4.3.1 need not be submitted unless required by the Division (40 CFR Part 60 Subpart A § 60.7(d)(1)).

If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in Condition 4.3.1 shall both be submitted (40 CFR Part 60 Subpart A § 60.7(d)(1)).

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SECTION III - Acid Rain Requirements

1. Designated Representative and Alternate Designated Representative

Designated Representative: Alternate Designated Representative:

Name: Martin J. Wenzel Name: Richard A. Recor Title: President and CEO, Title: Plant Manager

Colorado Energy Management

Phone: (303) 607-5610 Phone: 970-590-4371

2. Sulfur Dioxide Emission Allowances and Nitrogen Oxide Emission Limitations

Combustion Turbine No. CT001 (Unit 11)	2008	2009	2010	2011	2012	2013	
SO ₂ Allowances, per 40 CFR Part 73.10(b), Table 2	0*	0*	0*	0*	0*	0*	
NO _X Limits		This Unit Has No NO _X Limits (See Section 5)					

^{*} Under the provisions of § 72.84(a) any allowance allocations to, transfers to and deductions from an affected unit's Allowance Tracking System account is considered an automatic permit amendment and as such no revision to the permit is necessary. Numerical allowances shown in this table are from the 1996 edition of the CFR.

Combustion Turbine No. CT002 (Unit 12)	2008	2009	2010	2011	2012	2013	
SO ₂ Allowances, per 40 CFR Part 73.10(b), Table 2	0*	0*	0*	0*	0*	0*	
NO _X Limits		This Unit Has No NO _X Limits (See Section 5)					

^{*} Under the provisions of § 72.84(a) any allowance allocations to, transfers to and deductions from an affected unit's Allowance Tracking System account is considered an automatic permit amendment and as such no revision to the permit is necessary. Numerical allowances shown in this table are from the 1996 edition of the CFR.

3. Standard Requirements

Combustion Turbines No. CT001 (Unit 1) and CT002 (Unit 2) of this facility are subject to and the source has certified that they will comply with the following standard conditions.

Permit Requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

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- ii) Submit in a timely manner any supplemental information that the Division determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the Division; and
 - ii) Have an Acid Rain Permit.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Federal Clean Air Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each affected unit at the source shall:
 - i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Federal Clean Air Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

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- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

<u>Nitrogen Oxides Requirements</u>. The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

- (1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan to the Administrator of the U. S. EPA, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
 - i) Pay without demand, to the Administrator of the U. S. EPA, the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or the Division:
 - i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

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- iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
- iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Federal Clean Air Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Federal Clean Air Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Federal Clean Air Act.

<u>Effect on Other Authorities</u>. No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Federal Clean Air Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Federal Clean Air Act, including the

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provisions of title I of the Federal Clean Air Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

- (2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Federal Clean Air Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

4. Reporting Requirements

Reports shall be submitted to the addresses identified in Appendix D.

Pursuant to 40 CFR Part 75.64 quarterly reports and compliance certification requirements shall be submitted to the Administrator within 30 days after the end of the calendar quarter. The contents of these reports shall meet the requirements of 40 CFR 75.64.

Revisions to this permit shall be made in accordance with 40 CFR Part 72, Subpart H, §§ 72.80 through 72.85 (as adopted by reference in Colorado Regulation 18). Permit modification requests shall be submitted to the Division at the address identified in Appendix D.

Changes to the Designated Representative or Alternate Designated Representative shall be made in accordance with 40 CFR 72.23.

5. Comments, Notes and Justifications

Combustion Turbines No. CT001 and CT002 burn natural gas only. The NO_X limitations in 40 CFR Part 76 are only applicable to coal-fired utility units.

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SECTION IV - Permit Shield

Regulation No. 3, 5 CCR 1001-5, Part C, §§ I.A.4; V.D., & XIII.B; § 25-7-114.4(3)(a), C.R.S.

1. Specific Non-Applicable Requirements

Based on the information available to the Division and supplied by the applicant, the following parameters and requirements have been specifically identified as non-applicable to the facility to which this permit has been issued. This shield does not protect the source from any violations that occurred prior to or at the time of permit issuance. In addition, this shield does not protect the source from any violations that occur as a result of any modifications or reconstruction on which construction commenced prior to permit issuance.

No specific regulations were cited by Manchief Power Company, LLC as non-applicable to this facility.

2. General Conditions

Compliance with this Operating Permit shall be deemed compliance with all applicable requirements specifically identified in the permit and other requirements specifically identified in the permit as not applicable to the source. This permit shield shall not alter or affect the following:

- 2.1 The provisions of §§ 25-7-112 and 25-7-113, C.R.S., or § 303 of the federal act, concerning enforcement in cases of emergency;
- 2.2 The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- 2.3 The applicable requirements of the federal Acid Rain Program, consistent with § 408(a) of the federal act;
- 2.4 The ability of the Air Pollution Control Division to obtain information from a source pursuant to § 25-7-111(2)(I), C.R.S., or the ability of the Administrator to obtain information pursuant to § 114 of the federal act:
- 2.5 The ability of the Air Pollution Control Division to reopen the Operating Permit for cause pursuant to Regulation No. 3, Part C, § XIII.
- 2.6 Sources are not shielded from terms and conditions that become applicable to the source subsequent to permit issuance.

3. Streamlined Conditions

The following applicable requirements have been subsumed within this operating permit using the pertinent streamlining procedures approved by the U.S. EPA. For purposes of the permit shield, compliance with the

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listed permit conditions will also serve as a compliance demonstration for purposes of the associated subsumed requirements.

Permit Condition	Streamlined (Subsumed) Requirements
Section II, Condition 1.5.1	40 CFR Part 60 Subpart GG § 60.332(b), as adopted by reference in Colorado Regulation No. 6, Part A [NO _X emissions shall not exceed 114 ppmvd at 15% O ₂ and ISO standard ambient conditions].
Section II, Condition 1.10	40 CFR Part 60 Subpart GG § 60.334(h)(3), as adopted by reference in Colorado Regulation No. 6, Part A [monitor sulfur content of fuel]
Section II, Condition 4.3	40 CFR Part 60 Subpart GG § 60.334(j)(1)(iii), as adopted by reference in Colorado Regulation No. 6, Part A [NO _X excess emission reporting]
Section II, Condition 1.4.3	Regulation No. 6, Part B, Section II.D.3.b [SO ₂ emissions not to exceed 0.35 lbs/mmBtu] - State-only Requirement
Section II, Condition 3.4	Regulation No. 6, Part B, Section II.C.2 [particulate matter limit] – State-only requirement
Section II, Condition 3.6	Regulation No. 6, part B, Section II.C.3 [opacity standard] – State-only requirement

SECTION V - General Permit Conditions

1. Administrative Changes

Regulation No. 3, 5 CCR 1001-5, Part A, § III.

The permittee shall submit an application for an administrative permit amendment to the Division for those permit changes that are described in Regulation No. 3, Part A, § I.B.1. The permittee may immediately make the change upon submission of the application to the Division.

2. Certification Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, §§ III.B.9., V.C.16.a.& e. and V.C.17.

- a. Any application, report, document and compliance certification submitted to the Air Pollution Control Division pursuant to Regulation No. 3 or the Operating Permit shall contain a certification by a responsible official of the truth, accuracy and completeness of such form, report or certification stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- b. All compliance certifications for terms and conditions in the Operating Permit shall be submitted to the Air Pollution Control Division at least annually unless a more frequent period is specified in the applicable requirement or by the Division in the Operating Permit.
- c. Compliance certifications shall contain:
 - (i) the identification of each permit term and condition that is the basis of the certification;
 - (ii) the compliance status of the source;
 - (iii) whether compliance was continuous or intermittent;
 - (iv) method(s) used for determining the compliance status of the source, currently and over the reporting period; and
 - such other facts as the Air Pollution Control Division may require to determine the compliance status of the source.
- d. All compliance certifications shall be submitted to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit.
- e. If the permittee is required to develop and register a risk management plan pursuant to § 112(r) of the federal act, the permittee shall certify its compliance with that requirement; the Operating Permit shall not incorporate the contents of the risk management plan as a permit term or condition.

3. Common Provisions

Common Provisions Regulation, 5 CCR 1001-2 §§ II.A., II.B., II.C., II, E., II.F., II.I, and II.J

a. To Control Emissions Leaving Colorado

When emissions generated from sources in Colorado cross the State boundary line, such emissions shall not cause the air quality standards of the receiving State to be exceeded, provided reciprocal action is taken by the receiving State.

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b. Emission Monitoring Requirements

The Division may require owners or operators of stationary air pollution sources to install, maintain, and use instrumentation to monitor and record emission data as a basis for periodic reports to the Division.

c. Performance Testing

The owner or operator of any air pollution source shall, upon request of the Division, conduct performance test(s) and furnish the Division a written report of the results of such test(s) in order to determine compliance with applicable emission control regulations.

Performance test(s) shall be conducted and the data reduced in accordance with the applicable reference test methods unless the Division:

- (i) specifies or approves, in specific cases, the use of a test method with minor changes in methodology;
- (ii) approves the use of an equivalent method;
- (iii) approves the use of an alternative method the results of which the Division has determined to be adequate for indicating where a specific source is in compliance; or
- (iv) waives the requirement for performance test(s) because the owner or operator of a source has demonstrated by other means to the Division's satisfaction that the affected facility is in compliance with the standard. Nothing in this paragraph shall be construed to abrogate the Commission's or Division's authority to require testing under the Colorado Revised Statutes, Title 25, Article 7, and pursuant to regulations promulgated by the Commission.

Compliance test(s) shall be conducted under such conditions as the Division shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Division such records as may be necessary to determine the conditions of the performance test(s). Operations during period of startup, shutdown, and malfunction shall not constitute representative conditions of performance test(s) unless otherwise specified in the applicable standard.

The owner or operator of an affected facility shall provide the Division thirty days prior notice of the performance test to afford the Division the opportunity to have an observer present. The Division may waive the thirty day notice requirement provided that arrangements satisfactory to the Division are made for earlier testing.

The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

- (i) Sampling ports adequate for test methods applicable to such facility;
- (ii) Safe sampling platform(s);
- (iii) Safe access to sampling platform(s); and
- (iv) Utilities for sampling and testing equipment.

Each performance test shall consist of at least three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of results of at least three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other

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circumstances beyond the owner or operator's control, compliance may, upon the Division's approval, be determined using the arithmetic mean of the results of the two other runs.

Nothing in this section shall abrogate the Division's authority to conduct its own performance test(s) if so warranted.

d. Affirmative Defense Provision for Excess Emissions during Malfunctions

Note that until such time as the U.S. EPA approves this provision into the Colorado State Implementation Plan (SIP), it shall be enforceable only by the State.

An affirmative defense to a claim of violation under these regulations is provided to owners and operators for civil penalty actions for excess emissions during periods of malfunction. To establish the affirmative defense and to be relieved of a civil penalty in any action to enforce an applicable requirement, the owner or operator of the facility must meet the notification requirements below in a timely manner and prove by a preponderance of evidence that:

- (i) The excess emissions were caused by a sudden, unavoidable breakdown of equipment, or a sudden, unavoidable failure of a process to operate in the normal or usual manner, beyond the reasonable control of the owner or operator;
- (ii) The excess emissions did not stem from any activity or event that could have reasonably been foreseen and avoided, or planned for, and could not have been avoided by better operation and maintenance practices;
- (iii) Repairs were made as expeditiously as possible when the applicable emission limitations were being exceeded;
- (iv) The amount and duration of the excess emissions (including any bypass) were minimized to the maximum extent practicable during periods of such emissions;
- (v) All reasonably possible steps were taken to minimize the impact of the excess emissions on ambient air quality;
- (vi) All emissions monitoring systems were kept in operation (if at all possible);
- (vii) The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs or other relevant evidence;
- (viii) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;
- (ix) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions. This section is intended solely to be a factor in determining whether an affirmative defense is available to an owner or operator, and shall not constitute an additional applicable requirement; and
- (x) During the period of excess emissions, there were no exceedances of the relevant ambient air quality standards established in the Commissions' Regulations that could be attributed to the emitting source.

The owner or operator of the facility experiencing excess emissions during a malfunction shall notify the division verbally as soon as possible, but no later than noon of the Division's next working day, and shall submit written notification following the initial occurrence of the excess emissions by the end of the source's next reporting period. The notification shall address the criteria set forth above.

The Affirmative Defense Provision contained in this section shall not be available to claims for injunctive relief.

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The Affirmative Defense Provision does not apply to failures to meet federally promulgated performance standards or emission limits, including, but not limited to, new source performance standards and national emission standards for hazardous air pollutants. The affirmative defense provision does not apply to state implementation plan (sip) limits or permit limits that have been set taking into account potential emissions during malfunctions, including, but not necessarily limited to, certain limits with 30-day or longer averaging times, limits that indicate they apply during malfunctions, and limits that indicate they apply at all times or without exception.

e. Circumvention Clause

A person shall not build, erect, install, or use any article, machine, equipment, condition, or any contrivance, the use of which, without resulting in a reduction in the total release of air pollutants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of this regulation. No person shall circumvent this regulation by using more openings than is considered normal practice by the industry or activity in question.

f. Compliance Certifications

For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in the Colorado State Implementation Plan, nothing in the Colorado State Implementation Plan shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. Evidence that has the effect of making any relevant standard or permit term more stringent shall not be credible for proving a violation of the standard or permit term.

When compliance or non-compliance is demonstrated by a test or procedure provided by permit or other applicable requirement, the owner or operator shall be presumed to be in compliance or non-compliance unless other relevant credible evidence overcomes that presumption.

g. Affirmative Defense Provision for Excess Emissions During Startup and Shutdown

An affirmative defense is provided to owners and operators for civil penalty actions for excess emissions during periods of startup and shutdown. To establish the affirmative defense and to be relieved of a civil penalty in any action to enforce an applicable requirement, the owner or operator of the facility must meet the notification requirements below in a timely manner and prove by a preponderance of the evidence that:

- (i) The periods of excess emissions that occurred during startup and shutdown were short and infrequent and could not have been prevented through careful planning and design;
- (ii) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation or maintenance;
- (iii) If the excess emissions were caused by a bypass (an intentional diversion of control equipment), then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (iv) The frequency and duration of operation in startup and shutdown periods were minimized to the maximum extent practicable;
- (v) All possible steps were taken to minimize the impact of excess emissions on ambient air quality;
- (vi) All emissions monitoring systems were kept in operation (if at all possible);
- (vii) The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs or other relevant evidence; and,

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(viii) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions. This subparagraph is intended solely to be a factor in determining whether an affirmative defense is available to an owner or operator, and shall not constitute an additional applicable requirement.

The owner or operator of the facility experiencing excess emissions during startup and shutdown shall notify the Division verbally as soon as possible, but no later than two (2) hours after the start of the next working day, and shall submit written quarterly notification following the initial occurrence of the excess emissions. The notification shall address the criteria set forth above.

The Affirmative Defense Provision contained in this section shall not be available to claims for injunctive relief.

The Affirmative Defense Provision does not apply to State Implementation Plan provisions or other requirements that derive from new source performance standards, or national emissions standards for hazardous air pollutants, or any other federally enforceable performance standard or emission limit with an averaging time greater than twenty-four hours. In addition, an affirmative defense cannot be used by a single source or small group of sources where the excess emissions have the potential to cause an exceedance of the ambient air quality standards or Prevention of Significant Deterioration (PSD) increments.

In making any determination whether a source established an affirmative defense, the Division shall consider the information within the notification required above and any other information the Division deems necessary, which may include, but is not limited to, physical inspection of the facility and review of documentation pertaining to the maintenance and operation of process and air pollution control equipment

4. Compliance Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, §§ III.C.9., V.C.11. & 16.d., § 25-7-122.1(2), C.R.S.

- a. The permittee must comply with all conditions of the Operating Permit. Any permit noncompliance relating to federally-enforceable terms or conditions constitutes a violation of the federal act, as well as the state act and Regulation No. 3. Any permit noncompliance relating to state-only terms or conditions constitutes a violation of the state act and Regulation No. 3, shall be enforceable pursuant to state law, and shall not be enforceable by citizens under § 304 of the federal act. Any such violation of the federal act, the state act or regulations implementing either statute is grounds for enforcement action, for permit termination, revocation and reissuance or modification or for denial of a permit renewal application.
- b. It shall not be a defense for a permittee in an enforcement action or a consideration in favor of a permittee in a permit termination, revocation or modification action or action denying a permit renewal application that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- c. The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of any request by the permittee for a permit modification, revocation and reissuance, or termination, or any notification of planned changes or anticipated noncompliance does not stay any permit condition, except as provided in §§ X. and XI. of Regulation No. 3, Part C.
- d. The permittee shall furnish to the Air Pollution Control Division, within a reasonable time as specified by the Division, any information that the Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Division copies of records required to be kept by the permittee, including information claimed to be confidential. Any information subject to a claim of confidentiality shall be specifically identified and submitted separately from information not subject to the claim.

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- e. Any schedule for compliance for applicable requirements with which the source is not in compliance at the time of permit issuance shall be supplemental, and shall not sanction noncompliance with, the applicable requirements on which it is based.
- f. For any compliance schedule for applicable requirements with which the source is not in compliance at the time of permit issuance, the permittee shall submit, at least every 6 months unless a more frequent period is specified in the applicable requirement or by the Air Pollution Control Division, progress reports which contain the following:
 - (i) dates for achieving the activities, milestones, or compliance required in the schedule for compliance, and dates when such activities, milestones, or compliance were achieved; and
 - (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- g. The permittee shall not knowingly falsify, tamper with, or render inaccurate any monitoring device or method required to be maintained or followed under the terms and conditions of the Operating Permit.

5. Emergency Provisions

Regulation No. 3, 5 CCR 1001-5, Part C, § VII.

An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed the technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. "Emergency" does not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. An emergency constitutes an affirmative defense to an enforcement action brought for noncompliance with a technology-based emission limitation if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. an emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. the permitted facility was at the time being properly operated;
- c. during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- d. the permittee submitted oral notice of the emergency to the Air Pollution Control Division no later than noon of the next working day following the emergency, and followed by written notice within one month of the time when emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

This emergency provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

6. Emission Standards for Asbestos

Regulation No. 8, 5 CCR 1001-10, Part B

The permittee shall not conduct any asbestos abatement activities except in accordance with the provisions of Regulation No. 8, Part B, "emission standards for asbestos."

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7. Emissions Trading, Marketable Permits, Economic Incentives

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.13.

No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are specifically provided for in the permit.

8. Fee Payment

C.R.S. §§ 25-7-114.1(6) and 25-7-114.7

- a. The permittee shall pay an annual emissions fee in accordance with the provisions of § 25-7-114.7. A 1% per month late payment fee shall be assessed against any invoice amounts not paid in full on the 91st day after the date of invoice, unless a permittee has filed a timely protest to the invoice amount.
- b. The permittee shall pay a permit processing fee in accordance with the provisions of § 25-7-114.7. If the Division estimates that processing of the permit will take more than 30 hours, it will notify the permittee of its estimate of what the actual charges may be prior to commencing any work exceeding the 30 hour limit.
- c. The permittee shall pay an APEN fee in accordance with the provisions of § 25-7-114.1(6) for each APEN or revised APEN filed.

9. Fugitive Particulate Emissions

Regulation No. 1, 5 CCR 1001-3, § III.D.1.

The permittee shall employ such control measures and operating procedures as are necessary to minimize fugitive particulate emissions into the atmosphere, in accordance with the provisions of Regulation No. 1, § III.D.1.

10. Inspection and Entry

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.16.b.

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Air Pollution Control Division, or any authorized representative, to perform the following:

- a. enter upon the permittee's premises where an Operating Permit source is located, or emissions-related activity is conducted, or where records must be kept under the terms of the permit;
- b. have access to, and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the Operating Permit;
- d. sample or monitor at reasonable times, for the purposes of assuring compliance with the Operating Permit or applicable requirements, any substances or parameters.

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11. Minor Permit Modifications

Regulation No. 3, 5 CCR 1001-5, Part C, §§ X. & XI.

The permittee shall submit an application for a minor permit modification before making the change requested in the application. The permit shield shall not extend to minor permit modifications.

12. New Source Review

Regulation No. 3, 5 CCR 1001-5, Part B

The permittee shall not commence construction or modification of a source required to be reviewed under the New Source Review provisions of Regulation No. 3, Part B, without first receiving a construction permit.

13. No Property Rights Conveyed

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.11.d.

This permit does not convey any property rights of any sort, or any exclusive privilege.

14. Odor

Regulation No. 2, 5 CCR 1001-4, Part A

As a matter of state law only, the permittee shall comply with the provisions of Regulation No. 2 concerning odorous emissions.

15. Off-Permit Changes to the Source

Regulation No. 3, 5 CCR 1001-5, Part C, § XII.B.

The permittee shall record any off-permit change to the source that causes the emissions of a regulated pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from the change, including any other data necessary to show compliance with applicable ambient air quality standards. The permittee shall provide contemporaneous notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit . The permit shield shall not apply to any off-permit change.

16. Opacity

Regulation No. 1, 5 CCR 1001-3, §§ I., II.

The permittee shall comply with the opacity emissions limitation set forth in Regulation No. 1, §§ I.-II.

17. Open Burning

Regulation No. 9, 5 CCR 1001-11

The permittee shall obtain a permit from the Division for any regulated open burning activities in accordance with provisions of Regulation No. 9.

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18. Ozone Depleting Compounds

Regulation No. 15, 5 CCR 1001-17

The permittee shall comply with the provisions of Regulation No. 15 concerning emissions of ozone depleting compounds. Sections I., II.C., II.D., III. IV., and V. of Regulation No. 15 shall be enforced as a matter of state law only.

19. Permit Expiration and Renewal

Regulation No. 3, 5 CCR 1001-5, Part C, §§ III.B.6., IV.C., V.C.2.

- a. The permit term shall be five (5) years. The permit shall expire at the end of its term. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted.
- b. Applications for renewal shall be submitted at least twelve months, but not more than 18 months, prior to the expiration of the Operating Permit. An application for permit renewal may address only those portions of the permit that require revision, supplementing, or deletion, incorporating the remaining permit terms by reference from the previous permit. A copy of any materials incorporated by reference must be included with the application.

20. Portable Sources

Regulation No. 3, 5 CCR 1001-5, Part C, § II.D.

Portable Source permittees shall notify the Air Pollution Control Division at least 10 days in advance of each change in location.

21. Prompt Deviation Reporting

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.7.b.

The permittee shall promptly report any deviation from permit requirements, including those attributable to malfunction conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.

"Prompt" is defined as follows:

- a. Any definition of "prompt" or a specific timeframe for reporting deviations provided in an underlying applicable requirement as identified in this permit; or
- b. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations will be submitted based on the following schedule:
 - (i) For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in the applicable regulation) that continue for more than an hour in excess of permit requirements, the report shall be made within 24 hours of the occurrence;
 - (ii) For emissions of any regulated air pollutant, excluding a hazardous air pollutant or a toxic air pollutant that continue for more than two hours in excess of permit requirements, the report shall be made within 48 hours; and
 - (iii) For all other deviations from permit requirements, the report shall be submitted every six (6) months, except as otherwise specified by the Division in the permit in accordance with paragraph 22.d. below.

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c. If any of the conditions in paragraphs b.i or b.ii above are met, the source shall notify the Division by telephone (303-692-3155) or facsimile (303-782-0278) based on the timetables listed above. [Explanatory note: Notification by telephone or facsimile must specify that this notification is a deviation report for an Operating Permit.] A written notice, certified consistent with General Condition 2.a. above (Certification Requirements), shall be submitted within 10 working days of the occurrence. All deviations reported under this section shall also be identified in the 6-month report required above.

"Prompt reporting" does not constitute an exception to the requirements of "Emergency Provisions" for the purpose of avoiding enforcement actions.

22. Record Keeping and Reporting Requirements

Regulation No. 3, 5 CCR 1001-5, Part A, § II.; Part C, §§ V.C.6., V.C.7.

- a. Unless otherwise provided in the source specific conditions of this Operating Permit, the permittee shall maintain compliance monitoring records that include the following information:
 - (i) date, place as defined in the Operating Permit, and time of sampling or measurements;
 - (ii) date(s) on which analyses were performed;
 - (iii) the company or entity that performed the analysis;
 - (iv) the analytical techniques or methods used;
 - (v) the results of such analysis; and
 - (vi) the operating conditions at the time of sampling or measurement.
- b. The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report or application. Support information, for this purpose, includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Operating Permit. With prior approval of the Air Pollution Control Division, the permittee may maintain any of the above records in a computerized form.
- c. Permittees must retain records of all required monitoring data and support information for the most recent twelve (12) month period, as well as compliance certifications for the past five (5) years on-site at all times. A permittee shall make available for the Air Pollution Control Division's review all other records of required monitoring data and support information required to be retained by the permittee upon 48 hours advance notice by the Division.
- d. The permittee shall submit to the Air Pollution Control Division all reports of any required monitoring at least every six (6) months, unless an applicable requirement, the compliance assurance monitoring rule, or the Division requires submission on a more frequent basis. All instances of deviations from any permit requirements must be clearly identified in such reports.
- e. The permittee shall file an Air Pollutant Emissions Notice ("APEN") prior to constructing, modifying, or altering any facility, process, activity which constitutes a stationary source from which air pollutants are or are to be emitted, unless such source is exempt from the APEN filing requirements of Regulation No. 3, Part A, § II.D. A revised APEN shall be filed annually whenever a significant change in emissions, as defined in Regulation No. 3, Part A, § II.C.2., occurs; whenever there is a change in owner or operator of any facility, process, or activity; whenever new control equipment is installed; whenever a different type of control equipment replaces an existing type of control equipment; whenever a permit limitation must be modified; or before the APEN expires. An APEN is valid for a period of five years. The five-year period recommences when a revised APEN is received by the Air Pollution Control Division. Revised APENs shall be submitted no later than 30 days before the five-year term expires.

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Permittees submitting revised APENs to inform the Division of a change in actual emission rates must do so by April 30 of the following year. Where a permit revision is required, the revised APEN must be filed along with a request for permit revision. APENs for changes in control equipment must be submitted before the change occurs. Annual fees are based on the most recent APEN on file with the Division.

23. Reopenings for Cause

Regulation No. 3, 5 CCR 1001-5, Part C, § XIII.

- a. The Air Pollution Control Division shall reopen, revise, and reissue Operating Permits; permit reopenings and reissuance shall be processed using the procedures set forth in Regulation No. 3, Part C, § III., except that proceedings to reopen and reissue permits affect only those parts of the permit for which cause to reopen exists.
- b. The Division shall reopen a permit whenever additional applicable requirements become applicable to a major source with a remaining permit term of three or more years, unless the effective date of the requirements is later than the date on which the permit expires, or unless a general permit is obtained to address the new requirements; whenever additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program; whenever the Division determines the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or whenever the Division determines that the permit must be revised or revoked to assure compliance with an applicable requirement.
- c. The Division shall provide 30 days' advance notice to the permittee of its intent to reopen the permit, except that a shorter notice may be provided in the case of an emergency.
- d. The permit shield shall extend to those parts of the permit that have been changed pursuant to the reopening and reissuance procedure.

24. Section 502(b)(10) Changes

Regulation No. 3, 5 CCR 1001-5, Part C, § XII.A.

The permittee shall provide a minimum 7-day advance notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit. The permittee shall attach a copy of each such notice given to its Operating Permit.

25. Severability Clause

Regulation No. 3, 5 CCR 1001-5, Part C, § V.C.10.

In the event of a challenge to any portion of the permit, all emissions limits, specific and general conditions, monitoring, record keeping and reporting requirements of the permit, except those being challenged, remain valid and enforceable.

26. Significant Permit Modifications

Regulation No. 3, 5 CCR 1001-5, Part C, § III.B.2.

The permittee shall not make a significant modification required to be reviewed under Regulation No. 3, Part B ("Construction Permit" requirements) without first receiving a construction permit. The permittee shall submit a complete Operating Permit application or application for an Operating Permit revision for any new or modified source within twelve months of commencing operation, to the address listed in Item 1 in Appendix D of this permit. If the permittee chooses to use the "Combined Construction/Operating Permit" application procedures of Regulation No. 3, Part C, then the Operating Permit must be received prior to commencing construction of the new or modified source.

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27. Special Provisions Concerning the Acid Rain Program

Regulation No. 3, 5 CCR 1001-5, Part C, §§ V.C.1.b. & 8

- a. Where an applicable requirement of the federal act is more stringent than an applicable requirement of regulations promulgated under Title IV of the federal act, 40 Code of Federal Regulations (CFR) Part 72, both provisions shall be incorporated into the permit and shall be federally enforceable.
- b. Emissions exceeding any allowances that the source lawfully holds under Title IV of the federal act or the regulations promulgated thereunder, 40 CFR Part 72, are expressly prohibited.

28. Transfer or Assignment of Ownership

Regulation No. 3, 5 CCR 1001-5, Part C, § II.C.

No transfer or assignment of ownership of the Operating Permit source will be effective unless the prospective owner or operator applies to the Air Pollution Control Division on Division-supplied Administrative Permit Amendment forms, for reissuance of the existing Operating Permit. No administrative permit shall be complete until a written agreement containing a specific date for transfer of permit, responsibility, coverage, and liability between the permittee and the prospective owner or operator has been submitted to the Division.

29. Volatile Organic Compounds

Regulation No. 7, 5 CCR 1001-9, §§ III & V.

a. For sources located in an ozone non-attainment area or the Denver Metro Attainment Maintenance Area, all storage tank gauging devices, anti-rotation devices, accesses, seals, hatches, roof drainage systems, support structures, and pressure relief valves shall be maintained and operated to prevent detectable vapor loss except when opened, actuated, or used for necessary and proper activities (e.g. maintenance). Such opening, actuation, or use shall be limited so as to minimize vapor loss.

Detectable vapor loss shall be determined visually, by touch, by presence of odor, or using a portable hydrocarbon analyzer. When an analyzer is used, detectable vapor loss means a VOC concentration exceeding 10,000 ppm. Testing shall be conducted as in Regulation No. 7, Section VIII.C.3.

Except when otherwise provided by Regulation No. 7, all volatile organic compounds, excluding petroleum liquids, transferred to any tank, container, or vehicle compartment with a capacity exceeding 212 liters (56 gallons), shall be transferred using submerged or bottom filling equipment. For top loading, the fill tube shall reach within six inches of the bottom of the tank compartment. For bottom-fill operations, the inlet shall be flush with the tank bottom.

- b. The permittee shall not dispose of volatile organic compounds by evaporation or spillage unless Reasonably Available Control Technology (RACT) is utilized.
- c. No owner or operator of a bulk gasoline terminal, bulk gasoline plant, or gasoline dispensing facility as defined in Colorado Regulation No. 7, Section VI, shall permit gasoline to be intentionally spilled, discarded in sewers, stored in open containers, or disposed of in any other manner that would result in evaporation.

30. Wood Stoves and Wood burning Appliances

Regulation No. 4, 5 CCR 1001-6

The permittee shall comply with the provisions of Regulation No. 4 concerning the advertisement, sale, installation, and use of wood stoves and wood burning appliances.

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OPERATING PERMIT APPENDICES

- A INSPECTION INFORMATION
- **B-MONITORING AND PERMIT DEVIATION REPORT**
- C COMPLIANCE CERTIFICATION REPORT
- D NOTIFICATION ADDRESSES
- **E PERMIT ACRONYMS**
- F PERMIT MODIFICATIONS

*DISCLAIMER:

None of the information found in these Appendices shall be considered to be State or Federally enforceable, except as otherwise provided in the permit, and is presented to assist the source, permitting authority, inspectors, and citizens.

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APPENDIX A - Inspection Information

Directions to Plant

The facility is located at 14936 County Road 24, approximately 4.2 miles south of Brush in Morgan County, Colorado. This facility is adjacent to Public Service Company's Pawnee Generating Station

Safety Equipment Required

Eye Protection, Hard Hat, Safety Shoes and Hearing Protection

Facility Plot Plan

Figure 1 (following page) shows the plot plan as submitted on July 9, 2001 with the source's Title V Operating Permit Application.

List of Insignificant Activities

The following list of insignificant activities was provided by the source to assist in the understanding of the facility layout. Since there is no requirement to update such a list, activities may have changed since the last filing.

Insignificant activities and/or sources of emissions as identified in the Title V permit application:

<u>Units with emissions less than APEN de minimis - criteria and non criteria pollutants (Reg 3, part C.II.E.3.a & b)</u>

Evaporation cooler drain basin (normally empty)

Seal oil pit #1 (normally empty)

Seal oil pit #2 (normally empty)

Used oil sump (normally empty)

Welding, soldering and brazing operations using no lead-based compounds (Reg 3 Part C.II.E.3.r)

Maintenance Shop

Chemical storage tanks or containers < 500 gal (Reg 3 Part C.II.E.3.n)

Oil storage (55-gal drums)

Mineral Spirits Storage (55 gal drums)

Full Force Anti-Freeze and Coolant Storage (55 gal drums)

<u>Chemical Storage Areas < 5,000 gal capacity (Reg 3, Part C.II.E.3.mm)</u>

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Emissions of air pollutants which are not criteria or non-criteria reportable pollutants (Reg 3 Part C.II.E.3.00)

Raw water storage (200,000 gal) Treated water storage (200,000 gal) CO₂ purging

Lube oil storage tanks < 40,000 gal (Reg 3, Part C.II.E.3.aaa)

Lube Oil Storage #1 (3,600 gal) Lube Oil Storage #2 (3,600 gal)

Fuel storage and dispensing equipment in ozone attainment areas throughput < 400 gal/day averaged over 30 days (Reg 3 Part C.II.E.3.ccc)

Gasoline Tank, Unleaded (500 gal)

Storage tanks with annual throughput less than 400,000 gal/yr and meeting content specifications (Reg 3 Part C.II.E.3.fff)

Diesel Storage Tank, inside services building (above ground 250 gal)

Diesel Storage Tank, at drum storage area (500 gal)

Diesel Storage Tank, fuel holding tank for diesel generator (above ground 2,000 gal)

Diesel Fuel Tank, day tank for diesel generator (275 gal)

Oil/Water Separator

Stationary Internal Combustion Engines - limited hours or size (Reg 3 Part C.II.E.3.xxx)

Emergency Fire Water Pump (< 260 hp)

Not sources of emissions

Five (5) compressed H₂ bullets (H₂ used for cooling of generators)

Two (2) LP CO₂ tanks

Two (2) HP CO₂ tanks

Transformer TT11 (mineral oil, 11,715 gal) – closed loop system

Transformer TT12 (mineral oil, 11,715 gal) – closed loop system

Transformer auxiliary (mineral oil, 7,452 gal) – closed loop system

Glycol system #1 – closed loop system

Glycol system #2 – closed loop system

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APPENDIX B

Reporting Requirements and Definitions

with codes ver 2/20/07

Please note that, pursuant to 113(c)(2) of the federal Clean Air Act, any person who knowingly:

- (A) makes any false material statement, representation, or certification in, or omits material information from, or knowingly alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required pursuant to the Act to be either filed or maintained (whether with respect to the requirements imposed by the Administrator or by a State);
- (B) fails to notify or report as required under the Act; or
- (C) falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required to be maintained or followed under the Act shall, upon conviction, be punished by a fine pursuant to title 18 of the United States Code, or by imprisonment for not more than 2 years, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

The permittee must comply with all conditions of this operating permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

The Part 70 Operating Permit program requires three types of reports to be filed for all permits. All required reports must be certified by a responsible official.

Report #1: Monitoring Deviation Report (due at least every six months)

For purposes of this operating permit, the Division is requiring that the monitoring reports are due every six months unless otherwise noted in the permit. All instances of deviations from permit monitoring requirements must be clearly identified in such reports.

For purposes of this operating permit, monitoring means any condition determined by observation, by data from any monitoring protocol, or by any other monitoring which is required by the permit as well as the recordkeeping associated with that monitoring. This would include, for example, fuel use or process rate monitoring, fuel analyses, and operational or control device parameter monitoring.

Report #2: Permit Deviation Report (must be reported "promptly")

In addition to the monitoring requirements set forth in the permits as discussed above, each and every requirement of the permit is subject to deviation reporting. The reports must address deviations from permit

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requirements, including those attributable to malfunctions as defined in this Appendix, the probable cause of such deviations, and any corrective actions or preventive measures taken. All deviations from any term or condition of the permit are required to be summarized or referenced in the annual compliance certification.

For purposes of this operating permit, "malfunction" shall refer to both emergency conditions and malfunctions. Additional discussion on these conditions is provided later in this Appendix.

For purposes of this operating permit, the Division is requiring that the permit deviation reports are due as set forth in General Condition 21. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. For example, quarterly Excess Emission Reports required by an NSPS or Regulation No. 1, Section IV.

In addition to the monitoring deviations discussed above, included in the meaning of deviation for the purposes of this operating permit are any of the following:

- (1) A situation where emissions exceed an emission limitation or standard contained in the permit;
- (2) A situation where process or control device parameter values demonstrate that an emission limitation or standard contained in the permit has not been met;
- (3) A situation in which observations or data collected demonstrates noncompliance with an emission limitation or standard or any work practice or operating condition required by the permit; or,
- (4) A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only if the emission point is subject to CAM)

For reporting purposes, the Division has combined the Monitoring Deviation Report with the Permit Deviation Report. All deviations shall be reported using the following codes:

1 = **Standard:** When the requirement is an emission limit or standard 2 = **Process:** When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed
 6 = Record: When the requirement is recordkeeping
 7 = Report: When the requirement is reporting

8 = CAM: A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the

Compliance Assurance Monitoring (CAM) Rule) has occurred.

9 = Other: When the deviation is not covered by any of the above categories

Report #3: Compliance Certification (annually, as defined in the permit)

Submission of compliance certifications with terms and conditions in the permit, including emission limitations, standards, or work practices, is required not less than annually.

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Compliance Certifications are intended to state the compliance status of each requirement of the permit over the certification period. They must be based, at a minimum, on the testing and monitoring methods specified in the permit that were conducted during the relevant time period. In addition, if the owner or operator knows of other material information (i.e. information beyond required monitoring that has been specifically assessed in relation to how the information potentially affects compliance status), that information must be identified and addressed in the compliance certification. The compliance certification must include the following:

- The identification of each term or condition of the permit that is the basis of the certification;
- Whether or not the method(s) used by the owner or operator for determining the compliance status with each permit term and condition during the certification period was the method(s) specified in the permit. Such methods and other means shall include, at a minimum, the methods and means required in the permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Clean Air Act, which prohibits knowingly making a false certification or omitting material information;
- The status of compliance with the terms and conditions of the permit, and whether compliance was continuous or intermittent. The certification shall identify each deviation and take it into account in the compliance certification. Note that not all deviations are considered violations.
- Such other facts as the Division may require, consistent with the applicable requirements to which the source is subject, to determine the compliance status of the source.

The Certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only for emission points subject to CAM)

Note the requirement that the certification shall identify each deviation and take it into account in the compliance certification. Previously submitted deviation reports, including the deviation report submitted at the time of the annual certification, may be referenced in the compliance certification.

Startup, Shutdown, Malfunctions and Emergencies

Understanding the application of Startup, Shutdown, Malfunctions and Emergency Provisions, is very important in both the deviation reports and the annual compliance certifications.

Startup, Shutdown, and Malfunctions

Please note that exceedances of some New Source Performance Standards (NSPS) and Maximum Achievable Control Technology (MACT) standards that occur during Startup, Shutdown or Malfunctions may not be

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¹ For example, given the various emissions limitations and monitoring requirements to which a source may be subject, a deviation from one requirement may not be a deviation under another requirement which recognizes an exception and/or special circumstances relating to that same event.

considered to be non-compliance since emission limits or standards often do not apply unless specifically stated in the NSPS. Such exceedances must, however, be reported as excess emissions per the NSPS/MACT rules and would still be noted in the deviation report. In regard to compliance certifications, the permittee should be confident of the information related to those deviations when making compliance determinations since they are subject to Division review. The concepts of Startup, Shutdown and Malfunctions also exist for Best Available Control Technology (BACT) sources, but are not applied in the same fashion as for NSPS and MACT sources.

Emergency Provisions

Under the Emergency provisions of Part 70 certain operational conditions may act as an affirmative defense against enforcement action if they are properly reported.

DEFINITIONS

Malfunction (NSPS) means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Malfunction (SIP) means any sudden and unavoidable failure of air pollution control equipment or process equipment or unintended failure of a process to operate in a normal or usual manner. Failures that are primarily caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

Emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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Monitoring and Permit Deviation Report - Part I

- 1. Following is the **required** format for the Monitoring and Permit Deviation report to be submitted to the Division as set forth in General Condition 21. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.
- 2. Part II of this Appendix B shows the format and information the Division will require for describing periods of monitoring and permit deviations, or malfunction or emergency conditions as indicated in the Table below. One Part II Form must be completed for each Deviation. Previously submitted reports (e.g. EER's or malfunctions) may be referenced and the form need not be filled out in its entirety.

FACILITY NAME: Manchief Power Company, LLC – Manchief Generating Station
OPERATING PERMIT NO: 01OPMR236
REPORTING PERIOD:

Operating Permit Unit	H. i D i di .	Deviation During P	eriod? ¹	Deviation Code ²	Malfur /Emer Condition During	gency Reported Period?
ID	Unit Description	YES	NO		YES	NO
CT001 and CT002	Two (2) Siemens Westinghouse Model V84.3A1 Natural Gas Fired Combustion Turbines, Each Rated at 1,279 mmBtu/hr, Serial Numbers: 800310 (CT001) and 800311 (CT002). Each Turbine Drives a Generator Rated at 142 MW at 32° F.					
DE003	General Motors, No. 2 Diesel Fuel Fired Internal Combustion Engine, Model No. 20-045-E4, Serial No. 69-81-1097, Rated at 25.29 mmBtu/hr and 3600 HP. This Engine Drives a Generator Rated at 3 MW. Power from this Engine is Used to Start the Turbines.					
GH004	One (1) Gas Tech, Model Eclipse, Serial No. J-5419, Natural Gas Fired Indirect Water Bath Heater, Rated at 8.36 mmBtu/hr. This Heater is Used for Heating Fuel Gas Going to the Turbines.					
	General Conditions					
	Insignificant Activities					

¹ See previous discussion regarding what is considered to be a deviation. Determination of whether or not a deviation has occurred shall be based on a reasonable inquiry using readily available information.

²Use the following entries as appropriate:

1 = **Standard:** When the requirement is an emission limit or standard **2 = Process:** When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed **6 = Record:** When the requirement is recordkeeping

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7 = Report: When the requirement is reporting

8 = CAM: A situation in which an excursion or exceedance as defined in 40 CFR Part 64 (the Compliance Assurance

Monitoring (CAM) Rule) has occurred.

9 = Other: When the deviation is not covered by any of the above categories

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FACILITY NAME:

Monitoring and Permit Deviation Report - Part II

Manchief Power Company, LLC - Manchief Generating Station

OPERATING PERMIT NO: 010PMR236 REPORTING PERIOD:			
Is the deviation being claimed as an:	Emergency	Malfunction	N/A
(For NSPS/MACT) Did the deviation occur during:	Startup Normal Operation	Shutdown	Malfunction
OPERATING PERMIT UNIT IDENTIFICATION:			
Operating Permit Condition Number Citation			
Explanation of Period of Deviation			
<u>Duration (start/stop date & time)</u>			
Action Taken to Correct the Problem			
Measures Taken to Prevent a Reoccurrence of the Pr			
Dates of Malfunctions/Emergencies Reported (if app			
Deviation Code	Division Code QA:		

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SEE EXAMPLE ON THE NEXT PAGE

FACILITY NAME:

Acme Corp.

EXAMPLE

OPERATING PERMIT NO: 96OPZZXXX REPORTING PERIOD: 1/1/04 - 6/30/06				
Is the deviation being claimed as an:	Emergency	_ Malfunction _	XX	N/A
(For NSPS/MACT) Did the deviation occur during:	Startup Normal Operation	Shutdown	_ Malfu	inction
OPERATING PERMIT UNIT IDENTIFICATION:				
Asphalt Plant with a Scrubber for Particulate Control	l - Unit XXX			
Operating Permit Condition Number Citation				
Section II, Condition 3.1 - Opacity Limitation				
Explanation of Period of Deviation				
Slurry Line Feed Plugged				
<u>Duration</u>				
START- 1730 4/10/06 END- 1800 4/10/06				
Action Taken to Correct the Problem				
Line Blown Out				
Measures Taken to Prevent Reoccurrence of the Prol	<u>olem</u>			
Replaced Line Filter				
Dates of Malfunction/Emergencies Reported (if appl	<u>icable)</u>			
5/30/06 to A. Einstein, APCD				
Deviation Code	Division Code QA:		-	

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Monitoring and Permit Deviation Report - Part III

REPORT CERTIFICATION

SOURCE NAME: Manchief Power Co	mpany, LLC – Manchief Generating Station
FACILITY IDENTIFICATION NUMBER	: 0870011
PERMIT NUMBER: 010PMR236	
REPORTING PERIOD:	(see first page of the permit for specific reporting period and dates)
	al Deviation Reports must be certified by a responsible official as A, Section I.B.38. This signed certification document must be tted.
STATEMENT OF COMPLETENESS	
	abmitted in its entirety and, based on information and belief y that the statements and information contained in this submittal
1-501(6), C.R.S., makes any false materi	ate that any person who knowingly, as defined in Sub-Section 18- al statement, representation, or certification in this document is aished in accordance with the provisions of Sub-Section 25-7
Printed or Typed Name	Title
Signature of Responsib	ole Official Date Signed
	ed to the Division at the address given in Appendix D of this
Operating Permit Number: 01OPMR236	First Issued: 1/1/04

APPENDIX C

Required Format for Annual Compliance Certification Report

ver 2/20/07

Following is the format for the Compliance Certification report to be submitted to the Division and the U.S. EPA annually based on the effective date of the permit. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.

FACILITY NAME: Manchief Power Company, LLC – Manchief Generating Station

OPERATING PERMIT NO: 010PMR236 REPORTING PERIOD:

I. Facility Status

During the entire reporting period, this source was in compliance with ALL terms and conditions containe	d٤
in the Permit, each term and condition of which is identified and included by this reference. The method(s)	
used to determine compliance is/are the method(s) specified in the Permit.	

With the possible exception of the deviations identified in the table below, this source was in compliance with all terms and conditions contained in the Permit, each term and condition of which is identified and included by this reference, during the entire reporting period. The method used to determine compliance for each term and condition is the method specified in the Permit, unless otherwise indicated and described in the deviation report(s). Note that not all deviations are considered violations.

Operating Permit Unit ID	Unit Description	Devia Repo	ations rted ¹		toring od per nit? ²	continu	mpliance lous or ittent? ³
		Previous	Current	YES	NO	Continuous	Intermittent
CT001 and CT002	Two (2) Siemens Westinghouse Model V84.3A1 Natural Gas Fired Combustion Turbines, Each Rated at 1,279 mmBtu/hr, Serial Numbers: 800310 (CT001) and 800311 (CT002). Each Turbine Drives a Generator Rated at 142 MW at 32° F.						
DE003	General Motors, No. 2 Diesel Fuel Fired Internal Combustion Engine, Model No. 20-045-E4, Serial No. 69-81-1097, Rated at 25.29 mmBtu/hr and 3600 HP. This Engine Drives a Generator Rated at 3 MW. Power from this Engine is Used to Start the Turbines.						

Operating Permit Number: 01OPMR236 First Issued: 1/1/04

Operating Permit Unit ID	Unit Description	Deviations Reported ¹		Metho	toring od per nit? ²	contin	npliance uous or ittent? ³
		Previous	Current	YES	NO	Continuous	Intermittent
GH004	One (1) Gas Tech, Model Eclipse, Serial No. J-5419, Natural Gas Fired Indirect Water Bath Heater, Rated at 8.36 mmBtu/hr. This Heater is Used for Heating Fuel Gas Going to the Turbines.						
	General Conditions						
	Insignificant Activities ⁴						

¹ If deviations were noted in a previous deviation report, put an "X" under "previous". If deviations were noted in the current deviation report (i.e. for the last six months of the annual reporting period), put an "X" under "current". Mark both columns if both apply.

NOTE:

The Periodic Monitoring requirements of the Operating Permit program rule are intended to provide assurance that even in the absence of a continuous system of monitoring the Title V source can demonstrate whether it has operated in continuous compliance for the duration of the reporting period. Therefore, if a source 1) conducts all of the monitoring and recordkeeping required in its permit, even if such activities are done periodically and not continuously, and if 2) such monitoring and recordkeeping does not indicate non-compliance, and if 3) the Responsible Official is not aware of any credible evidence that indicates non-compliance, then the Responsible Official can certify that the emission point(s) in question were in continuous compliance during the applicable time period.

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² Note whether the method(s) used to determine the compliance status with each term and condition was the method(s) specified in the permit. If it was not, mark "no" and attach additional information/explanation.

³ Note whether the compliance status with of each term and condition provided was continuous or intermittent. "Intermittent Compliance" can mean either that noncompliance has occurred or that the owner or operator has data sufficient to certify compliance only on an intermittent basis. Certification of intermittent compliance therefore does not necessarily mean that any noncompliance has occurred.

⁴ Compliance status for these sources shall be based on a reasonable inquiry using readily available information.

II.	Status for Accidental Release Prevention Program:						
	A.	_			subject to the provisions of the A e Federal Clean Air Act)	Accidental	
	B.	If subject: The farequirements of s		is	is not in compliance with all	the	
			_		be has been submitted d central location by the required		
III.	Certifi	cation					
Colora	do Reg		t A, Section I.B.38		e certified by a responsible office certification document must be p		
reasor	able in		_		n information and belief forme tion contained in this certifica		
C.R.S	., make	s any false mater	ial statement, rep	resentation, or	who knowingly, as defined in § or certification in this document or ovisions of § 25-7 122.1, C.R.S	nt is guilty of a	
		Printed or Typed	Name		Title	;	
		Signature			Date S	igned	
		-			Air Pollution Control Division an endix D of this Permit.	nd to the	

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APPENDIX D

Notification Addresses

1. Air Pollution Control Division

Colorado Department of Public Health and Environment Air Pollution Control Division Operating Permits Unit APCD-SS-B1 4300 Cherry Creek Drive S. Denver, CO 80246-1530

ATTN: Jim King

2. United States Environmental Protection Agency

Compliance Notifications:

Office of Enforcement, Compliance and Environmental Justice Mail Code 8ENF-T U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

Permit Modifications, Off Permit Changes:

Office of Partnerships and Regulatory Assistance Air and Radiation Programs, 8P-AR U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

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APPENDIX E

Permit Acronyms

Listed Alphabetically:

AIRS -	Aerometric Information Retrieval System
AP-42-	EPA Document Compiling Air Pollutant Emission Factors
APEN -	Air Pollution Emission Notice (State of Colorado)
APCD -	Air Pollution Control Division (State of Colorado)
ASTM -	American Society for Testing and Materials
BACT -	Best Available Control Technology
BTU -	British Thermal Unit
CAA -	Clean Air Act (CAAA = Clean Air Act Amendments)
CCR -	Colorado Code of Regulations
CEM -	Continuous Emissions Monitor
CF -	Cubic Feet (SCF = Standard Cubic Feet)
CFR -	Code of Federal Regulations
CO -	Carbon Monoxide
COM -	Continuous Opacity Monitor
CRS -	Colorado Revised Statute
EF -	Emission Factor
EPA -	Environmental Protection Agency
FI -	Fuel Input Rate in mmBtu/hr
FR -	Federal Register
G -	Grams
Gal -	Gallon
GPM -	Gallons per Minute
HAPs -	Hazardous Air Pollutants
HP -	Horsepower
HP-HR -	Horsepower Hour ($G/HP-HR = Grams per Horsepower Hour$)
LAER -	Lowest Achievable Emission Rate
LBS -	Pounds
M -	Thousand
MM -	Million
MMscf -	Million Standard Cubic Feet
MMscfd -	Million Standard Cubic Feet per Day
N -	Normal Operation, as referenced in permit limitation table in Section II.1
N/A or NA -	11
NO_X -	Nitrogen Oxides
MIDCHIAD	AT A TO A

NSPS -New Source Performance Standards

Process Weight Rate in Tons/Hr P -

Particulate Emissions PE -

NESHAP -

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National Emission Standards for Hazardous Air Pollutants

PM -	Particulate Matter
1 1V1 -	I articulate iviation

PM₁₀ - Particulate Matter Under 10 Microns

PPM - Parts Per Million

PPMV - Parts Per Million, by Volume
PPMVD - Parts per Million, by Volume, Dry
PSD - Prevention of Significant Deterioration

PTE - Potential To Emit

RACT - Reasonably Available Control Technology

SCC - Source Classification Code

SCF - Standard Cubic Feet

SD - Shutdown, as referenced in permit limitation table in Section II.1

SIC - Standard Industrial Classification

SO₂ - Sulfur Dioxide

SU - Start-Up, as referenced in permit limitation table in Section II.1

TPY - Tons Per Year

TSP - Total Suspended Particulate
VOC - Volatile Organic Compounds

APPENDIX F

Permit Modifications

DATE OF REVISION	MODIFICATION TYPE	SECTION NUMBER, CONDITION NUMBER	DESCRIPTION OF REVISION
December 5, 2011	Minor Modification	Page Following Cover Page	Revised the information under "issued to".

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